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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,616	09/27/2001	Takashi Yoshimura	DAIN: 649	2132

7590 10/02/2003

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EXAMINER

SPISICH, MARK

ART UNIT	PAPER NUMBER
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1744

DATE MAILED: 10/02/2003

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/937,616

Applicant(s)

YOSHIMURA ET AL.

Examiner

Mark Spisich

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 September 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Notice of Informal Examiner's Amendment

"18" (page 6, line 26) has been changed to -- 28 --.

Drawings

2. Figures 4A and 4B should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. The disclosure is objected to because of the following informalities: the "brief description" from page 4, line 36 thru page 5, line 1 is not consistent with the actual figures in that there are two separate figures labeled as 2A and 2B.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yashiki et al (USP 6,041,465) in view of Stephens et al (USP 5,875,507). The patent to Yashiki discloses a cleaning apparatus comprising an upper cleaning roller (3-1) supported for rotation on a base (7a) and including a core member (31) and an elastic porous cleaning member (32), a lower cleaning roller (3-2) having the same basic construction as the upper cleaning roller and which is capable of holding a peripheral portion of a substrate (W) together with the upper cleaning roller (see fig 6), drive mechanism (43, etc) for rotating the upper and lower cleaning rollers, moving mechanism (7, etc) for moving the upper and lower cleaning rollers relative to the substrate and a liquid supply means (5-1). The patent to Yashiki discloses the invention substantially as claimed with the exception of the cleaning liquid supply system for supplying a cleaning liquid to one of the cleaning rollers. The provision of a cleaning fluid inside a substrate cleaning roller is known in the art, as the patent to Stephens discloses such an apparatus including porous brushes (26,28) mounted on core members which have passages (40,42) for supplying a cleaning fluid thereto. It is further noted that Stephens also discloses the external fluid supply (56,58) which is equivalent to the supply (5-1) of Yashiki. It would have been obvious to one of ordinary skill to have modified the device of Yashiki as taught by Stephens so that cleaning fluid could be delivered to the point of contact of the cleaning rollers with the substrate. With regard to claim 2, most any fluid supply would involve some type of supply pipe. The passages (40,42) terminate in "holes" (see fig 2) which supply the fluid directly to the cleaning members (claims 3-6). The rollers are driven by a common motor (43) as in

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claim 7. All the steps of the method (claim 8) are met by the basic components of the prior art as applied against claim 1.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patent to Itzkowitz is pertinent to a substrate cleaning apparatus including rotary cleaning rollers as well as a mechanism for moving them relative to the substrate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Spisich whose telephone number is (703) 308-1271. The examiner can normally be reached on M-Th (6-3:30), Alternate Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J Warden can be reached on (703) 308-2920. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.



Mark Spisich
Primary Examiner
Art Unit 1744

MS